

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/NL 03/00046

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D3/00 B01D3/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 025 398 A (G.G.HASELDEN) 24 May 1977 (1977-05-24) the whole document	1, 12-19
A	US 4 234 391 A (J.D.SEADER) 18 November 1980 (1980-11-18) cited in the application claim 1; figure 2	1
A	US 4 681 661 A (R.GOVIND) 21 July 1987 (1987-07-21) cited in the application the whole document	1
A	US 5 783 047 A (K.ASO ET AL.) 21 July 1998 (1998-07-21) cited in the application claim 1; figure 1	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

6 March 2003

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14/03/2003

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4025398	A	24-05-1977	GB	1508603 A	26-04-1978
US 4234391	A	18-11-1980	CA	1137440 A1	14-12-1982
			DE	2961269 D1	14-01-1982
			EP	0010253 A1	30-04-1980
			JP	55054002 A	21-04-1980
US 4681661	A	21-07-1987	CA	1220443 A1	14-04-1987
			EP	0140637 A1	08-05-1985
			US	4615770 A	07-10-1986
US 5783047	A	21-07-1998	JP	2694425 B2	24-12-1997
			JP	8066601 A	12-03-1996
			JP	2732373 B2	30-03-1998
			JP	9052001 A	25-02-1997
			DE	69529146 D1	23-01-2003
			EP	0726085 A1	14-08-1996
			WO	9606665 A1	07-03-1996